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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method for organizing alerts into alert classes, both the alerts and alert classes having a plurality of features, the method comprising the steps of:

- (a) receiving a new alert;
- (b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes;
- (c) updating a minimum similarity requirement for one or more features;
- (d) updating a similarity expectation for one or more features;
- (e) comparing the new alert with one or more alert classes, and either:
 - (f1) associating the new alert with the existing alert class that the new alert most closely matches; or
 - (f2) defining a new alert class that is associated with the new alert.

2. (Original) The method of claim 1 further comprising the step (a1) of passing each existing alert class through a transition model to generate a new prior belief state for each alert class.

3. (Original) A method for organizing alerts having a plurality of features, each feature having one or more values, the method comprising the steps of:

- (a) generating a group of feature records for a new alert, each feature record including a list of observed values for its corresponding feature;
- (b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes that are associated with previous alerts;
- (c) comparing the new alert to one or more alert classes;
- (d) rejecting a match if any feature for which a minimum similarity value has been set fails to meet or exceed the minimum similarity value;
- (e) adjusting the comparison by an expectation that certain feature values will or will

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not match, and either:

(f1) associating the new alert with the existing alert class that the new alert most closely matches; or

(f2) defining a new alert class that is associated with the new alert.

4. (Original) In an intrusion detection system that includes a plurality of sensors, each of which generates alerts when attacks or anomalous incidents are detected, a method for organizing the alerts comprising the steps of:

(a) receiving an alert;

(b) identifying a set of features that may be shared by the received alert and one or more existing alert classes;

(c) setting a minimum similarity value for one or more features or feature groups; comparing the new alert to one or more of the alert classes, and either:

(d1) defining a new alert class that is associated with the received alert if any feature or feature group that has a minimum similarity value fails to meet or exceed its minimum similarity value; or

(d2) associating the received alert with the existing alert class that the received alert most closely matches.

5. (Original) A method for organizing alerts into alert classes, both the alerts and alert classes having a plurality of features, the method comprising the steps of:

(a) receiving a new alert;

(b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes;

(c) updating a minimum similarity requirement for one or more features;

(d) comparing the new alert with one or more alert classes, and either:

(e1) associating the new alert with the existing alert class that the new alert most closely matches; or

(e2) defining a new alert class that is associated with the new alert.

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6. (Original) A method for organizing alerts having a plurality of features, each feature having one or more values, the method comprising the steps of:

(a) generating a group of feature records for a new alert, each feature record including a list of observed values for its corresponding feature;

(b) identifying a set of potentially similar features shared by the new alert and one or more existing alert classes that are associated with previous alerts;

(c) comparing the new alert to one or more alert classes;

(d) rejecting a match if any feature for which a minimum similarity value has been set fails to meet or exceed the minimum similarity value, and either:

(e1) associating the new alert with the existing alert class that the new alert most closely matches; or

(e2) defining a new alert class that is associated with the new alert.